

ALABAMA DEPARTMENT OF TRANSPORTATION

SPECIFICATIONS FOR MID-SIZE INTERCITY COACH

1.0 General

T-906

1.1 Bid Item

The item for bid is a mid-size intercity coach vehicle with under-floor luggage compartments and wheelchair lift, suitable for rural intercity operations and a passenger capacity of 39 (35 with wheelchair stations utilized). State Purchasing Ref. No. ????

1.2 Purpose

It is the purpose of these specifications to describe minimum requirements for the newest, latest model available of a mid-size intercity coach type vehicle with under-floor luggage compartments and wheelchair lift, designed ruggedly enough to withstand the riggers of daily intercity bus service while providing the maximum of safety, comfort, passenger appeal, ease of maintenance, reliability and general economy of operation.

1.3 Intent

It is the intent of these specifications to place on the contract to list a mid-size intercity coach type vehicle with under-floor luggage compartments, wheelchair lift, and design seating capacity of 39 adult passengers with an option for 35 with wheelchair stations utilized. Allowances will be made for wheelchair lifts and securement stations. This vehicle must meet all applicable Federal Motor Vehicle Safety Standards (FMVSS) and Environmental Protection Agency (EPA) regulations at the date of manufacture. The coach must also meet the Federal Transit Administration (FTA) Buy America regulations (49 CFR Part 661) and FTA's Bus Testing Regulation (49 CFR Part 665) and Americans with Disabilities Act requirements. It is required that Altoona test results be furnished as part of this bid.

It is not the intent to write out vendors/manufacturers of similar or equal equipment, however it is intended to provide specifications to meet the needs of intercity bus providers statewide.

Wherever brand names are used, the brand name is used merely as a specification and not as a statement of preference for the specific product, and the phrases "or equal" or "or approved equal" should be implied after any brand name.

1.4 Completeness

Any part or detail that makes the vehicle complete and ready for service shall not be omitted, even though such part or detail is not mentioned in these specifications.

The price quoted in any proposal submitted shall include all items of labor, materials, tools, equipment and other costs necessary to fully complete the manufacture and delivery of the vehicle pursuant to these specifications.

1.5 Conformity

All units or parts not specified shall be manufacturer's best quality and shall conform in materials, design, or workmanship to the best practice known in the automotive industry. All parts shall be new and in no case will used, reconditioned or obsolete parts be accepted. The parts on all vehicles provided by the same manufacturer should be interchangeable.

1.6 Testing

Complete vehicle and all working and moving parts and operating devices shall be thoroughly tested and put in proper operating condition by the manufacturer, including a water test for leakage. Proof of Altoona testing must be provided.

1.7 Materials

All materials used in the manufacturing of the vehicle shall conform in all respects to American Society of Testing Materials, Society of Automotive Engineers or similar association standards. Materials used shall be of first quality and shall be exactly duplicated in manufacture, design and construction on each vehicle.

2.0 Dimensions/Capacities

2.1	Passenger Capacity	Approx. – 39 (without lift deployed)
2.2	Overall Length	Maximum – 35' +/-1"
2.3	Overall Width	Maximum – 102" +/-1"
2.4	Overall Height	Maximum – 138" +/-1"
2.5	Interior Width (at seat cushion)	Minimum – 90" +/-1"
2.6	Interior Height (at center aisle)	Minimum – 78" +/-1"
2.7	First Step Height from Ground	Maximum – 12"
2.8	Step Riser Height	Maximum - 10"
2.9	Step Tread Depth	Minimum – 9"
2.10	Floor Height from Ground	Maximum – 38.5" +/-1"
2.11	Seat Width	Minimum - 17.5"
2.12	Seat Spacing	Minimum – 27.5"
2.13	Hip to Knee Room	Minimum - 28"
2.14	Aisle Width	Minimum - 14"
2.15	Entry Door (clear opening width)	Minimum - 30"X70"

2.16	GVWR	Minimum – 37,600 lbs
2.17	Wheelbase	Minimum - 228"
2.18	Turning Radius (curb to curb)	Minimum – 28'
2.19	Fuel Tank Capacity	Minimum - 95 gal.
2.20	Under-Floor Baggage Capacity w/Lift	Minimum – 200 cu.ft.

Coach must be manufactured in accordance with all applicable U.S. and Canadian Federal Motor Vehicle Safety (FMVSS/CMVSS) and industry standards. It should be designed to meet an Altoona test life of at least 12 years – 500,000 miles. Frame assembly and flooring shall maintain integrity and inhibit corrosion with no repairs for a minimum of 12 years. Floor structure design shall be in accordance with FMVSS 210 compliance for passenger and driver's seatbelts to withstand 20g. Frame assembly to be of a welded construction with a minimum life expectancy of 12 years.

3.0 Chassis Related

3.1 Chassis Type

Freightliner XBR Coach (or approved equal). To include axle oil seals for front and rear axles.

3.2 Engine

Coach shall be powered by a clean diesel engine, Cummins ISB or approved equal, with a minimum 280 horsepower, capable of achieving a road speed of 70 MPH on a straight and level payment. Equipped with an engine exhaust brake with a three position – off/low/medium control switch. Muffler and exhaust pipe tubing must be stainless steel. There will be provided an immersion heater on engine block with 3-prong plug.

3.3 Fuel System

Equipped with 95 gallon minimum usable capacity or largest OEM available. Fuel level gauge on instrument panel with low fuel warning light. Standard fill system with fuel anti-siphon device required. Fuel filter equipped with manual shut-off valve. Fuel block with extra port/fitting for pressure testing or priming.

3.4 Exhaust System

Vehicle shall be equipped with an exhaust system that meets U.S. Government noise level and exhaust emission (smoke and noxious gasses) requirements. There shall be a heat shield between the tail pipe and fuel tank.

3.5 Transmission

The transmission shall be an automatic Allison B300 Gen IV or approved equal. Transmission shift lever shall be interlocked with the engine starter motor to prevent engagement of the starter in a gear other than park or neutral. Cruise control and transmission oil cooler are required.

3.6 Suspension System

Front axle: Minimum 14,600 lbs., independent, unitized hub with hub pilot wheel mounting.

Drive axle: Minimum 23,000 lbs., unitized hub with hub pilot outer and inner wheel mounting, ratio of 4:78

Provide protective shield on drive axle air bellows against flat tires/tire blowouts. Front axle load/overweight monitoring system.

Coach provided with air suspension system equipped with compressor capable of an output of 18 CFM minimum. Air will be provided to the front and rear air suspension system to include a front kneeling feature. Independent front suspension with 60 degree wheel cut. The kneeling front suspension will be electronically controlled, operating only when the transmission is in neutral, the parking brake is applied, and the entrance door is closed. Visual and audible warnings of kneeling feature will be activated while coach is in the process of kneeling or recovery. Heavy duty front and rear suspension with heavy duty rear stabilizer bars. Heavy duty springs and shock absorbers must be adequate to match specified GVWR for fully loaded coach.

3.7 Steering

Fully integral, hydraulic power steering unit with steering wheel tilting and telescoping capability. Urethane steering wheel with integrated controls. Minimum 18" steering wheel diameter.

3.8 Brakes

Bus must be equipped with both service and emergency brakes that comply with FMVSS # 121. Antilock braking system (ABS) with integral speed sensing and wheel control. Front disc brakes are required on front axle and drum or disc brakes on rear. Interlocked parking brake system is required.

3.9 Wheels

The coach shall have single front and dual rear wheels and comply with FMVSS # 120. The wheels shall be of heaviest duty available, steel and be fully interchangeable. Wheel bearings shall be extra heavy duty. Mylar wheel spacer provided on all wheels. Wheel protector finish will be provided on outboard wheel position.

3.10 Tires

A total of seven (including spare) tires shall be tubeless steel-belted radial type size 295/80 R 22.5" x 12 ply (minimum). A spare tire of the same size and quality shall be properly mounted to wheel, balanced and mounted. Tires to be branded with numbers on both sides, with brand numbers recorded on final vehicle record after tires installed on coach.

3.11 Battery

Dual heavy duty, 12 volt, minimum 8D batteries with minimum Cold-Cranking Amperage (CCA) of 1300 at 0 degrees Fahrenheit. The battery tray shall be treated for resistance to corrosion and shall be supported on a ball bearing slide mechanism. The battery access door shall be lockable and located in the skirt area on a slide tray. One battery is to be wired strictly for starting engine. The other is to run accessories, i.e., air conditioning, lights, etc. Parallel wiring is also acceptable.

3.12 Alternator

Minimum output of 270 amps 12 volt with internal voltage regulator.

4.0 Radiator/Cooling System

Cooling system shall be equipped with a heavy duty radiator with extra cooling capacity. The cooling system shall be designed to prevent engine overheating during prolonged idling at high ambient temperatures. Radiator tanks shall be heaviest available. Heavy duty silicone hoses on all coolant lines. All fittings shall be of brass or OEM. Radiator shall be side mounted with minimum system capacity of 9 gallons. Radiator fan speed shall be controlled hydraulically. Provide a method to pressure test cooling system. Seal-less water booster pump provided.

5.0 Heating/Defrosting System

Shall be rated at a minimum of 139,000 BTUs and capable of maintaining an Interior temperature of 65 – 70 degrees measured 12 inches off the floor with an outside ambient temperature of 0 degrees Fahrenheit. A 50,000 BTU minimum auxiliary heater is required to maintain temperature in the passenger compartment and/or provide engine preheat. The auxiliary heater shall be activated by a digital programmable timer. The timer shall be equipped with operation indicator lights and offer a two set option to start the heater in preheat mode to warm the engine before starting. All motors used in the heater system must be provided with fully sealed bearings. The heater shall be programmed for 24-Volt power. Defroster blowers shall be operational with charging system and/or main A/C system or circuit failure for safety purposes. Base board heat will be provided.

6.0 Air Conditioning System

Independent main and driver's HVAC systems with digital electronic temperature control on dash. Roof mounted, 24 volt closed circuit system with individual air outlets. Controls for passenger and driver areas separately. A complete air-conditioning system shall be of a size capable of providing adequate cooling and dehumidifying capacity for driver and passenger comfort. There will be a free blow system to evenly distribute cool air for passengers and operator comfort. It shall be easy to operate for control and will be easily accessible to the driver. Shall be rated at least 110,000 BTU for A/C and be capable of maintaining an interior temperature of 65 – 70 degrees measured at 12 inches above the floor with an outside ambient temperature of 90 degrees Fahrenheit. Interior parcel racks shall be equipped with A/C vents. Front dash air conditioning shall also be provided. Low suction pressure and high discharge pressure cutoff circuits with indicator lights on dash must be provided. Driver fresh air vent provided with automatic fresh air controls. A heavy duty, high capacity 6-cylinder open drive system, such as Carrier Model 05G (or approved equal) shall be provided. The system shall utilize ozone friendly R-134A refrigerant with quick connect/disconnect type service/charge fittings. Condenser coil will be corrosion resistant with both tubes and fins made of copper. Brushless evaporator, condenser, defroster and parcel rack blower motors will be provided.

7.0 Compressed Air System

Coach shall be equipped with a compressor capable of an output of 18 CFM minimum. This system shall provide air for the front and rear air suspension system to include a front kneeling feature. A Bendix AD-9, or approved equal, air dryer shall be provided. Include indicator light on dash for accessory air tank low pressure warning.

8.0 Electrical System

- 8.1 Intellitec Multiplex, or approved equal, electrical system with sealed modules
- 8.2 24-volt charging/starting system
- 8.3 12-volt electrical and lighting system
- 8.4 12-volt alternator with minimum output of 270 amps
- 8.5 12/24 volt main cut-off relays or manual disconnect switch
- 8.6 Master battery disconnect switch
- 8.7 Auxiliary 12 volt outlet for driver's area
- 8.8 Fusible link installed on main battery power cable

- 8.9 Standard 12-volt cigarette lighter-type electrical power source receptacle on driver's LH control panel for accessories hookup, not tied to the battery disconnect switch or master switch
- 8.10 Cruise control/fast idle system
- 8.11 Public address system with tone control, amplifier, standard handheld microphone, not boom type
- 8.12 Ten speakers, with five on each side, located throughout coach
- 8.13 2-SAE 8D batteries, 12-volt, multi-plate, deep cycled, minimum 1300 CCA at 0 degrees Fahrenheit
- 8.14 Starter motor a Delco 29 MT or approved equal
- 8.15 Daytime running lights tied to master switch
- 8.16 Interior parcel rack equipped with individual reading lights and air conditioning vents over each seat
- 8.17 Driver's dimmer switch for first 2 rows of reading light assemblies on the parcel racks
- 8.18 Gauges provided on dash for engine oil pressure, coolant temperature, air pressure, fuel level and vehicle speed.
- 8.19 Warning devices for low air pressure.
- 8.20 Reading light test switch
- 8.21 Basic stepwell markings and light in compliance with ADA requirements
- 8.22 Alternator with minimum output of 270 amps/12 volt with internal voltage regulator
- 8.23 100 amp battery equalizer
- 8.24 Battery disconnect switch with an external marking as to location adjacent to the battery
- 8.25 Programmable electronic speedometer with odometer to read in miles and kilometers
- 8.26 Back-up alarm activated when transmission is in reverse
- 8.27 Keyless ignition switch
- 8.28 Turbo/boost gauge
- 8.29 Engine exhaust brake active indicator light on dash
- 8.30 Programmable electronic destination sign
- 8.31 Circuit to prevent illumination of destination sign when in-station lights are on
- 8.32 Anti-theft circuit
- 8.33 Hubodometer (miles) on right drive axle
- 8.34 Integrated audio and video system with AM/FM/CD/DVD player
- 8.35 2 – 15" +/- flat screen monitors with option for additional monitors
- 8.36 2 – 10" +/- flat screen monitors with option for additional monitors
- 8.37 Headset system and plug-ins on each seat
- 8.38 Digital annunciation system for safety announcements
- 8.39 110 volt dual plug at each passenger seat
- 8.40 110 volt plug mounted at left side of driver
- 8.41 Dual 1800 watt 110 volt power inverters
- 8.42 On-board 24 volt/41 amp battery charger
- 8.43 Front and rear LED clearance lights
- 8.44 Brighter lights around dual wheels and back-up lighting

- 8.45 Interior LED lighting, reading lights and aisle lights
- 8.46 Door activated stepwell lights
- 8.47 Xenon headlights and fog lights
- 8.48 Halogen cornering and docking lights
- 8.49 Satellite radio made available as option
- 8.50 Wi-Fi made available as option
- 8.51

9.0 Restroom

A restroom will be provided in the rear of the coach. The restroom shall be equipped with a flush toilet with stainless steel insert, chemical type wash basin, along with an open-front heavy duty seat, rolled toilet paper dispenser, trash can, mirror, and fiberglass enclosure to enable easier cleaning. A non-flush toilet will be available as optional equipment. There will be a clean out plug on the main chemical tank, waterless hand soap dispenser, "No Smoking" decal inside restroom, grab handle with tamper proof screws, exhaust system and stainless steel auxiliary retention tank with clean out plug. A secondary holding tank will be available as optional equipment.

10.0 Safety Equipment and Tools

Coach shall be equipped with: a tire chain tray, triangle safety reflectors (3 pcs.); one DOT compliant 10-lb. fire extinguisher mounted securely in a box under RH front seat; automatically activated back-up warning system when transmission is in reverse gear; DOT compliant first aid kit of sufficient size to treat the number of persons equal to the designed seating capacity of the vehicle including the driver; a bloodborne pathogen kit; DOT compliant fuses/flares (qty. 3); smart tire monitoring system; fire suppression system; and a FMVSS compliant escape roof hatch with dimensions of 23" x 23" minimum.

11.0 Body

- 11.1 Steel cage construction with a minimum 24" on center roof bows
- 11.2 Minimum of 304 Stainless Steel below the vehicle floor line
- 11.3 Rust inhibitor treated frame structure
- 11.4 Floor a minimum of 5/8" thick
- 11.5 Exterior sidewall, roof and fenders made of fiberglass or approved equal
- 11.6 Astro Foil, or approved equal, insulation for sidewall and back wall to maintain temperatures required for heating and air conditioning systems
- 11.7 Urethane foam insulation in roof
- 11.8 Exterior side body molding
- 11.9 Under-floor pass through luggage compartments

- 11.10 Luggage and rear engine doors shall be of the pantograph design for ultimate accessibility and ease
- 11.11 Air operated entrance door a Bode, or approved equal, with a cam lock feature to minimize wind noise and maximize safety
- 11.12 Drip rails over side windows and entrance door
- 11.13 Any bright metal exterior trim shall be stainless steel, polished aluminum, or chrome plated.
- 11.14 Energy absorbing rear bumper
- 11.15 Front bumper shall be fiberglass reinforced plastic installed with tilt feature to allow access to spare tire and wheel assembly
- 11.16 Bumpers shall be fastened directly to the chassis frame to allow shock from impact to be transmitted directly to chassis frame
- 11.17 Two recessed tow hooks of sufficient strength to tow 1 1/2 times the GVW rating of the vehicle, with hooks installed as per OEM to prevent damage to the bus while towing and prevent dragging on inclines.
- 11.18 Skirting and belly pans to protect engine and transmission
- 11.19 Access doors shall be provided where necessary to service transmission, engine, radiator, battery, electrical and air conditioning components.
- 11.20 Seating arrangement with standard pedestal mounting for 39 passengers
- 11.21 FMVSS 210 compliant 3-point passenger seatbelts in all positions
- 11.22 Fully adjustable driver's seat with 3-point seatbelt system with armrests
- 11.23 Open style parcel racks without doors or dividers, with passenger handhold rail along full length of both parcel racks.
- 11.24 Front half of LH parcel rack section equipped with door, divider panel, and keyed-alike lock for driver's storage
- 11.25 Front half of RH parcel rack section equipped with door, divider panel, and keyed-alike lock for electronic equipment storage
- 11.26 Carpeted ceiling, sidewalls and under parcel racks
- 11.27 Double glaze, thermopane glass on driver's window and entrance door windows
- 11.28 Double glaze, thermopane glass on passenger side windows, with grey tint and maximum of 20% light transmission and configured to meet the applicable FMVSS escape requirements
- 11.29 Rear window available as optional equipment
- 11.30 Dual windshield wiper motors
- 11.31 Two heavy-duty, self parking, electrically operated, with integral intermittent pulse windshield wipers.
- 11.32 Windshield washers with a minimum one (1) gallon reservoir.
- 11.33 Large instruction decals for emergency window exits
- 11.34 Large instruction decals for non-emergency window exits
- 11.35 DOT compliant AS-1 and AS-4 safety glass in all locations
- 11.36 Fiberglass driver enclosure and modesty panel with rubber noise suppression provided behind driver without curtain, clear, no tint
- 11.37 Emergency escape roof hatch with vent option and compliant with FMVSS regulations
- 11.38 English/Spanish decal package and nameplates

- 11.39 Maintenance card holder and larger registration card holder installed side by side on modesty panel behind driver's seat
- 11.40 One (1) license plate holder on front of coach
- 11.41 Positive locking device for baggage door in open position
- 11.42 Driver's foot rest with electric horn button in addition to the horn button on steering wheel; electric horn shall sound like an air horn
- 11.43 Driver's aluminum floor plate
- 11.44 LED lights shall be used wherever available
- 11.45 Door activated stepwell lights
- 11.46 Stepwells are to be on one-piece steel construction. Three-piece welded into one-piece is also acceptable. Stepwell is to be constructed of a minimum 10-gauge steel at step and 14 gauge in sides adequately reinforced to prevent deflection. Less than 10 gauge at step may be acceptable if tested for 500 lb deflection. All steel shall be treated for resistance to corrosion.
- 11.47 Ayses, Twin Vision, Luminator, or approved equal, electronic destination sign installed in upper right windshield
- 11.48 Interior mirror
- 11.49 Remote controlled heated side mirrors with LED turn signals
- 11.50 Manual driver's windshield shades
- 11.51 Pull down curtain type sunshades on driver's side window
- 11.52 Custom molded LH grab rail at entrance
- 11.53 Air operated sedan entrance door with keyed alike lock
- 11.54 All door locks to be keyed alike
- 11.55 Grey Ribbed, stepreads provided with white nosings to comply with ADA requirements
- 11.56 RCA Rubber, or approved equal, floor covering throughout coach interior which meets ADA slip resistance requirements
- 11.57 White standee stripe across front edge of aisle
- 11.58 Carpet upholstery on interior sidewalls and ceiling
- 11.59 Color coordinated trash bag holders at each seat mounted on sidewall
- 11.60 Interior material and color scheme to be determined at time of order
- 11.61 Exterior paint, base coat/ clear coat application
- 11.62 Exterior paint and lettering scheme to be determined at time of order. Paint and lettering draft of required paint scheme to be provided by the procuring agency for review and pricing
- 11.63 Mudflaps/splash guards where applicable
- 11.64 Skid rails integral with engine cradle to protect engine and transmission oil pans
- 11.65 Ricon F9T, or approved equal, wheelchair lift installed on curb side of coach. Lift must operate when engine is not running, with manual door release in case of emergency.
- 11.66 Equipped with front door kneeling feature
- 11.67 Interior sliding seats installed at locations to allow the securement of two forward-facing wheelchairs in accordance with ADA regulations
- 11.68 Q'Straint QRT Max, or approved equal, securement straps to secure the wheelchairs

- 11.69 Wheelchair tie down tracks shall be reinforced below the floor by a minimum of 3 ½" x 1" 12 gauge steel "C" channel or flat steel 11 gauge welded to the steel sub floor
- 11.70 Electrically operated baggage door locking system
- 11.71 Reflective material applied to front of exterior mirrors
- 11.72 Trailer towing package, hitch rated 10,000 lbs, trailer air and electrical hookup system

12.0 Seats

Reclining passenger seats in a two-by-two arrangement with a three - passenger rear cross seat. Amaya Patriot, or approved equal, seats shall be provided. Seats shall be upholstered with Holdsworth, or approved equal, fabric, which would compliment the sidewalls and ceiling. Seats shall be equipped with retractable seat belts. National, or approved equal, driver's seat with arm rests and covered with fabric matching passenger seats.

13.0 Handicapped Accessibility

Vehicle will be provided with a curb-side mounted wheelchair lift. The lift will be a Ricon F9T, or approved equal. Interior sliding seats will be installed to allow the securement of two wheelchairs in accordance with ADA regulations. Q'Straint QRT Max, or approved equal, securement straps will be provided to secure the wheelchairs.

14.0 Workmanship

Workmanship throughout the vehicle will conform to the highest standard of commercially accepted practice for class of work and shall result in a neat and finished appearance. The design of the body and equipment which the manufacturer proposes to furnish must be such as to provide a vehicle of substantial and durable construction in all respects. An emphasis must be placed on passenger comfort and safety. Welding procedures, welding materials, and qualifications of operators will be in accordance with standards of the American Society of Testing Materials and the American Welding Society.

All welds visible to the public will be ground smooth after the welding to present a smooth, workmanlike appearance. Where metal is welded to metal, the contact surface will be free of scale, grease, paint. All exposed surfaces and edges will be neatly finished. All parts will be new and in no case will used, reconditioned or obsolete parts be accepted. Manufacturer will submit with his bid a detailed description and specifications of the frame structure, roof structure, and side sheeting, with particular reference to materials used. Any one part of whatever materials used in the construction will be an exact duplicate in manufacture and design and construction on each of the buses in the contract. Material

changes due to changes in model year are accepted provided such changes are submitted to ALDOT upon contract renewal.

15.0 Tests/Testing

The complete vehicle and all working and moving parts and operating devices will be thoroughly tested and put in operating condition by the manufacturer. Any dealer identification, advertising, or similar material will not be attached to the vehicle. Prior to acceptance of vehicle, the manufacturer will service and adjust vehicle for operation to include, as a minimum, the following:

- a. Focusing of lights
- b. Tuning of engine
- c. Adjustment of accessories
- d. Checking of electrical, braking and suspension system
- e. Charging of battery
- f. Inflation of tires
- g. Balancing of all wheels, including spare
- h. Complete lubrication of engine, chassis and operating mechanisms with recommended grades of lubricants for the ambient temperature at the point of delivery
- i. Servicing of cooling system with permanent type anti-freeze and summer coolant for minus 20 degrees Fahrenheit
- j. Servicing windshield washer with water and appropriate additives
- k. Full tank of fuel

16.0 Delivery Schedule

The vehicle(s) shall be delivered not more than 120 days after issue date of the Purchase Order. ALDOT shall be notified immediately if there is a problem affecting delivery. Notice of delivery shall be given not less than 24 hours prior to delivery.

17.0 Post Delivery Survey

The successful vendor shall conduct a survey of end users upon completion of the contract (delivery and acceptance of last vehicle ordered). The survey shall include (but not be limited to) product satisfaction, problems, etc. Also to be included in the survey is the contact person for the end user who has responsibility for the Preventive Maintenance Program (PMP). The PMP shall include vehicle chassis, body, air conditioning unit(s), and wheelchair lift. In addition, the survey shall include the vendor contact person for warranty questions/issues. The end user shall also provide the vendor with a warranty responsibility contact. The survey shall be completed not less than ninety (90) days after delivery to ALDOT. The vendor shall compile survey results and supply a copy to ALDOT.

18.0 Documentation

Each vehicle will be delivered with the following documentation: owner's manual; parts manual; service and maintenance manual; certificate of origin; bill of sale; check for application for title (to end user); warranty papers; spare key(s); quality control checklists; required certifications; vehicle-specific wiring schematic; and vendor customer service guide.

19.0 Warranties

The manufacturer will state the terms and conditions of the vehicle warranty. In no case will the warranty be less than the following: bumper to bumper - 12 months or 12,000 miles; chassis - 3 years or 36,000 miles; air conditioning units - 2 years/unlimited miles; body structural: 5 years or 75,000 miles.

The bidder will state where warranty maintenance work may be obtained in Alabama. ALDOT reserves the right to visit, inspect, and approve such facility before final award.

Any and all materials, specialties, equipment or accessories that prove defective in normal operation within the above period will be replaced or repaired by the manufacturer free of any and all cost to the vehicle operator, including material and labor. Warranty replacement and/or repairs will be facilitated promptly by the awarded vendor. The bidder will provide written assurance with the bid package regarding warranty repairs. All body parts shall be shipped in 10 calendar days or less. Other parts are to be shipped in 3 calendar days or an up-to-date status report is provided.

20.0 Training

Manufacturer will provide eight (8) hours of training that will be given to two (2) representatives of agency whom the vehicle(s) is purchased for, at the successful bidder's expense. The training will consist of four (4) hours covering general operation of the vehicle and four (4) hours covering vehicle safety. All training will be determined by the Alabama Department of Transportation, 1100 John Overton Dr., Montgomery, Alabama.